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Patent Abstract

EPB 98-17 0639632 **Use of an additive for lead-free, spark-ignited internal combustion engine fuels for reducing valve seat recession.**

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INVENTOR(S)- Koliander, Werner, Dr. Humboldtgassee
23/14 A-1100 Wien AT

PATENT ASSIGNEE(S)- OMV Aktiengesellschaft (792732)
Otto Wagner-Platz 5 1090 Wien AT **DESG. COUNTRIES**-
AT; BE; CH; DE; DK; FR; GB; GR; IE; IT; LI; MC; NL; SE
PATENT NUMBER- 00639632/EP B1
PATENT APPLICATION NUMBER- 94890107
DATE FILED- 1994-06-21
PUBLICATION DATE- 1998-04-22
PATENT PRIORITY INFO- AT, 1636/93, 1993-08-17
ATTORNEY, AGENT, OR FIRM- Atzwanger, Richard, Dipl.-Ing.
Patentanwalt, (43252), Mariahilfer Strasse 1c, 1060 Wien, AT
INTERNATIONAL PATENT CLASS- C10L00114; C10L00124
PUBLICATION- 1995-02-22, A1, Published application with
search report; 1998-04-22, B1, Publication of granted patent
FILING LANGUAGE- German
PROCEDURE LANGUAGE- German
LANGUAGE- German NDN- 069-0325-7104-7

EXEMPLARY CLAIMS- Use, as an additive for unleaded petrols to prevent or reduce valve seat wear, of a neutral alkali metal and/or alkaline-earth metal salt of a mono- or diester of sulphosuccinic acid of the general formula (I) wherein R_{sup1} and R_{sup2}, independently of each other, represent hydrogen or an aliphatic hydrocarbon group, on condition that at most one of the residues R_{sup1} or R_{sup2} signifies hydrogen, M represents an alkali metal or alkaline-earth metal ion and n corresponds to the valency of M, combined with at least one ash-free detergent and optionally other known additives. Use, for the purpose mentioned in claim 1, of a salt of a sulphosuccinic acid diester of the formula I mentioned in claim 1 combined with an ash-free detergent. Use, for the purpose mentioned in claim 1, of a salt

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Patent Abstract

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EPA 95-08 0639632 Additive for lead-free, spark-ignited internal combustion engine fuels as well as a fuel containing the same.

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Wagner-Platz 5 A-1030 Wien AT **DESG. COUNTRIES**- AT;
BE; CH; DE; DK; FR; GB; GR; IE; IT; LI; MC; NL; SE
PATENT APPLICATION NUMBER- 94890107
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INTERNATIONAL PATENT CLASS- C10L00114; C10L00124
PUBLICATION- 1995-02-22, A1, Published application with
search report
FILING LANGUAGE- German
PROCEDURE LANGUAGE- German
LANGUAGE- German NDN- 050-0045-2142-0

A novel anti-wear additive to unleaded internal combustion engine fuels (petrols) contains at least one alkali metal salt or alkaline earth metal salt of an alkyl sulphosuccinate in combination with a detergent and, if appropriate, with other fuel additives known per se.

DESIGNATED COUNTRY(S)- AT; BE; CH; DE; DK; FR; GB; GR; IE; IT; LI; MC; NL; SE

of a sulphosuccinic acid ester of the formula I mentioned in claim 1, in which the ester groups consist of hydrocarbon residues with from 4 to 20 carbon atoms, combined with an ash-free detergent. Use, for the purpose mentioned in claim 1, of a salt of a sulphosuccinic acid ester of the formula I mentioned in claim 1, in which the ester groups consist of hydrocarbon residues with from 6 to 13 carbon atoms, combined with an ash-free detergent. Use, for the purpose mentioned in claim 1, of a salt of a sulphosuccinic acid ester of the formula I mentioned in claim 1, in which the ester groups consist of hydrocarbon residues with 8 carbon atoms, combined with an ash-free detergent. Use, for the purpose mentioned in claim 1, of an alkali metal salt of a sulphosuccinic acid ester of the formula I mentioned in claim 1 combined with an ash-free detergent. Use, for the purpose mentioned in claim 1, of a potassium salt of a sulphosuccinic acid ester of the formula I mentioned in claim 1 combined with an ash-free detergent. Use, for the purpose mentioned in claim 1, of an alkali metal and/or alkaline-earth metal salt of a sulphosuccinic acid ester of the formula I mentioned in claim 1 combined with a detergent based on polybutene amine. Use, for the purpose mentioned in claim 1, of an alkali metal and/or alkaline-earth metal salt of a sulphosuccinic acid ester of the formula I mentioned in claim 1 combined with a detergent based on polyether amine. Use, for the purpose mentioned in claim 1, of an alkali metal and/or alkaline-earth metal salt of a sulphosuccinic acid ester of the formula I mentioned in claim 1 combined with an ash-free detergent with a molecular weight of from 2000 to 3000. Use, for the purpose mentioned in claim 1, of a potassium salt of a sulphosuccinic acid ester of the formula I mentioned in claim 1 combined with an ash-free detergent in a weight ratio of 1:(8-15). Use, for the purpose mentioned in claim 1, of a mixture of from 4 wt.% to 9 wt.% alkali metal salt of a sulphosuccinic acid ester of the formula I mentioned in claim 1 and from 60 wt.% to 80 wt.% ash-free detergent, the weight being made up to 100 % with carrier oil and/or diluent. Use, for the purpose mentioned in claim 1, of a mixture containing a potassium salt of a sulphosuccinic acid ester of the formula I mentioned in claim 1 and an ash-free detergent, potassium being present in an amount of from 0.2 wt.% to 0.7 wt.%.

DESIGNATED COUNTRY(S)- AT; BE; CH; DE; DK; FR; GB; GR; IE; IT; LI; MC; NL; SE

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